Please add new claims 73-86.

--73. A thin film transistor comprising;

a crystalline semiconductor island over a substrate having an insulating surface;

source and drain regions in said semiconductor island;

a channel forming region between said source and drain regions:

a gate insulating film adjacent to at least said channel forming

region;

a gate electrode adjacent to said channel forming region having said gate insulating film therebetween,

wherein said channel forming region has no grain boundary, and wherein said crystalline semiconductor island includes carbon and nitrogen at a concentration not higher than  $5 \times 10^{18}$  cm<sup>-3</sup>, and oxygen at a concentration not higher than  $5 \times 10^{19}$  cm<sup>-3</sup>.

74. A thin film transistor according to claim 73 wherein said crystalline semiconductor island comprises a material selected from the group consisting of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu, Ag, Au.

75. A thin film transistor according to claim 74 wherein said material is included in said semiconductor island at a concentration not higher than  $5 \times 10^{19}$  cm<sup>-3</sup>.

76. A thin film transistor according to claim 73 wherein said semiconductor island includes a point defect of 1 x  $10^{16}$  cm<sup>-3</sup> or more, and one of hydrogen and

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halogen element for neutralizing the point defect at a concentration of 1 x  $10^{15}$  to  $1 \times 10^{20}$  cm/3.

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77. A thin film transistor according to claim 73 wherein said semiconductor island includes a spin density of  $1 \times 10^{15}$  to  $1 \times 10^{17}$  cm<sup>-3</sup>.

78. A thin film transistor according to claim 73 wherein said semiconductor island is a silicon island.

79. A thin film transistor according to claim 73 wherein said crystalline semiconductor island includes carbon and nitrogen at a concentration not lower than  $1 \times 10^{16}$  cm<sup>-3</sup>, and oxygen at a concentration not lower than  $1 \times 10^{17}$  cm<sup>-3</sup>.

Cont.

80. A thin film transistor comprising:

a crystalline semiconductor island on an insulating surface; source and drain regions in said semiconductor island;

a channel forming region between said source and drain regions;

a gate insulating film on at least said channel forming region;

a gate electrode over said channel forming region having said gate

insulating film therebetween,

wherein said channel forming region has no grain boundary, and wherein said crystalline semiconductor island includes carbon and nitrogen at a concentration not higher than  $5 \times 10^{18}$  cm<sup>-3</sup>, and oxygen at a concentration not higher than  $5 \times 10^{19}$  cm<sup>-3</sup>.



- 81. A thin film transistor according to claim 80 wherein said crystalline semiconductor island comprises a material selected from the group consisting of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu, Ag, Au.
- 82. A thin film transistor according to claim 80 wherein said material is included in said semiconductor island at a concentration not higher than 5 x  $10^{19}$  cm<sup>-3</sup>.

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- 83. A thin film transistor according to claim 80 wherein said semiconductor island includes a point defect of 1 x $10^{16}$  cm<sup>-3</sup> or more, and one of hydrogen and halogen element for neutralizing the point defect at a concentration of 1 x  $10^{15}$  to 1 x  $10^{20}$  cm<sup>-3</sup>.
- 84. A thin film transistor according to claim 80 wherein said semiconductor island includes a spin density of 1 x  $10^{15}$  to 1 x  $10^{17}$  cm<sup>-3</sup>.
- 85. A thin film transistor according to claim 80 wherein said semiconductor island is a silicon island.
- 86. A thin film transistor according to claim 80 wherein said crystalline semiconductor island includes carbon and nitrogen at a concentration not lower than  $1 \times 10^{16}$  cm<sup>-3</sup>, and oxygen at a concentration not lower than  $1 \times 10^{17}$  cm<sup>-3</sup>.--

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